

ATTY. DOCKET NO. 1997.0010002	APPLICATION NO. 09/698,246
	APPLICANT Fu et al.
	FILING DATE October 30, 2000

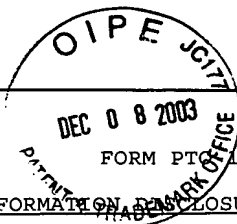
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CD	AA1	4,719,833	01/1988	Kato et al.			
CD	AB1	5,373,236	12/1994	Tsui et al.			
CD	AC1	5,500,874	03/1996	Terrell			
CD	AD1	6,144,712	11/2000	Samueli et al.			10/09/1997
CD	AE1	09/698,249		Fu et al.			10/30/2000
CD	AF1	09/699,088		Fu et al.			10/30/2000
	AG1						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AH1						
	AI1						
	AJ1						

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CD	AK	1	Ahn, Y. et al., "VLSI Design Of A Cordic-Based Derotator," <i>Proc. 1998 IEEE Int. Symp. Circuits Syst.</i> , Vol. II, pp. 449-452 (May 1998).
CD	AL	1	Andronico, M. et al., "A New Algorithm for Fast Synchronization in a Burst Mode PSK Demodulator," <i>Proc. 1995 IEEE Int. Conf. Comm.</i> , Vol. 3, pp. 1641-1646 (June 1995).
CD	AM	1	Arivoli, T. et al., "A Single Chip DMT Modem for High-Speed WLANs," <i>Proc. 1998 Custom Integrated Circuits Conf.</i> , IEEE, pp. 9-11 (May 1998).
CD	AN	1	Boutin, N., "An Arctangent Type Wideband PM/FM Demodulator With Improved Performance," <i>IEEE Trans. Consumer Electron.</i> , Vol. 38, No. 1, pp. 5-9 (February 1992).
CD	AO	1	Buchanan, K. et al., "IMT-2000: Service Provider's Perspective," <i>IEEE Personal Communications</i> , pp. 8-13 (August 1997).
CD	AP	1	Chen, A. et al., "Modified CORDIC Demodulator Implementation for Digital IF-Sampled Receiver," <i>Proc. Globecom 1995</i> , Vol. 2, pp. 1450-1454 (1995).

EXAMINER 	DATE CONSIDERED 4/3/04
--------------	---------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



ATTY. DOCKET NO. 1997.0010002		APPLICATION NO. 09/698,246
APPLICANT Fu et al.		
FILING DATE October 30, 2000		GROUP 2124

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA2						
	AB2						
	AC2						
	AD2						
	AE2						
	AF2						
	AG2						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AH2						
	AI2						
	AJ2						

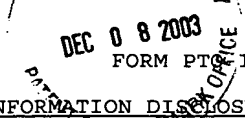
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CD	AK	2	Chen, A. et al., "Reduced Complexity CORDIC Demodulator Implementation for D-AMPS and Digital IF-Sampled Receiver," <i>Proc. Globecom 1998</i> , Vol. 3, pp. 1491-1496 (1998).
CD	AL	2	Cho, K., <i>A Frequency-Agile Single-Chip QAM Modulator with Beamforming Diversity</i> , Dissertation Submitted to the University of California, Los Angeles, 137 pages (1999).
CD	AM	2	Critchlow, D.N., <i>The Design and Simulation of a Modulatable Direct Digital Synthesizer With Non Iterative Coordinate Transformation and Noise Shaping Filter</i> , Thesis Submitted to the University of California, San Diego, 55 pages (1989).
CD	AN	2	Daneshrad, B., Ph.D., <i>System design of a 1.6 Mbps all-digital QAM transceiver for digital subscriber line applications</i> , Dissertation Submitted to the University of California, Los Angeles, 156 pages (1993).
CD	AO	2	Erup, L. et al., "Interpolation in Digital Modems - Part II: Implementation and Performance," <i>IEEE Transactions on Communications</i> , Vol. 41, No. 6, pp. 998-1008 (June 1993).
CD	AP	2	Farrow, C.W., "A Continuously Variable Digital Delay Element," <i>ISCAS' 88</i> , IEEE, pp. 2641-2645 (1988).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.


 DEC 08 2003
 FORM PT 1449
 INFORMATION DISCLOSURE STATEMENT
 TRADEMARK

ATTY. DOCKET NO.
1997.0010002

APPLICATION NO.
09/698,246

APPLICANT
Fu et al.

FILING DATE
October 30, 2000

GROUP
2124

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA3						
	AB3						
	AC3						
	AD3						
	AE3						
	AF3						
	AG3						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AH3						
	AI3						
	AJ3						

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CD	AK	3	Fitz, M.P. and Lindsey, W.C., "Decision-Directed Burst-Mode Carrier Synchronization Techniques," <i>IEEE Transactions on Communications</i> , Vol. 40, No. 10, pp. 1644-1653 (October 1992).
CD	AL	3	Fowler, D.L. and Smith, J.E., "An Accurate, High Speed Implementation of Division by Reciprocal Approximation," <i>Proc. 9th Symp. On Computer Arithmetic</i> , pp. 60-67 (1989).
CD	AM	3	Freeman, H., <i>Discrete-Time Systems: An Introduction to the Theory</i> , John Wiley & Sons, Inc., Library of Congress Catalog Card Number 65-14255, Entire Book submitted (1965).
CD	AN	3	Fu, D. and Willson Jr., A.N., "Interpolation In Timing Recovery Using A Trigonometric Polynomial And Its Implementation," <i>Globecom 1998 Comm. Theory Mini Conf. Record</i> , IEEE, pp. 173-178 (November 1998).
CD	AO	3	Gardner, F.M., "Interpolation in Digital Modems - Part I: Fundamentals," <i>IEEE Transactions on Communications</i> , Vol. 41, No. 3, pp. 501-507 (March 1993).
CD	AP	3	Gardner, S., "Burst modem design techniques: part 1," <i>Electronic Engineering</i> , p. 85(5), (September 1999).

EXAMINER

DATE CONSIDERED
4/3/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DEC 08 2003
FORM PTO-149
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1997.0010002

APPLICATION NO.
09/698,246

APPLICANT
Fu et al.

FILING DATE
October 30, 2000

GROUP
2124

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA4						
	AB4						
	AC4						
	AD4						
	AE4						
	AF4						
	AG4						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AH4						
	AI4						
	AJ4						

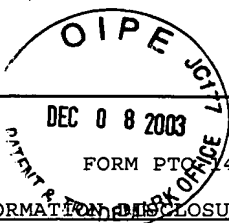
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CD	AK	4	Gardner, S., "Burst modem design techniques: part 2," <i>Electronic Engineering</i> , p. 75(5), (December 1999).
CD	AL	4	Koren, I., <i>Computer Arithmetic Algorithms</i> , Prentice Hall, ISBN No. 0-13-151952-2, Entire book submitted (1993).
CD	AM	4	Lang, T. and Antelo, E., "CORDIC Vectoring with Arbitrary Target Value," <i>IEEE Transactions On Computers</i> , Vol. 47, No. 7, pp. 736-749 (July 1998).
CD	AN	4	Madisetti, A. et al., "A 100-MHz, 16-b, Direct Digital Frequency Synthesizer with a 100-dBc Spurious-Free Dynamic Range," <i>IEEE Journal of Solid-State Circuits</i> , Vol. 34, No. 8, pp. 1034-1043 (August 1999).
OD	AO	4	Madisetti, A., <i>VLSI Architectures and IC Implementations for Bandwidth Efficient Communications</i> , Dissertation submitted to the University of California, Los Angeles, 132 pages (1996).
CD	AP	4	Meyr, H. et al., <i>Digital Communication Receivers: Synchronization, Channel Estimation, and Signal Processing</i> , John Wiley & Sons, Inc., ISBN No. 0-471-50275-8, Entire book submitted (1998).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



DEC 08 2003 FORM PTOL 449 INFORMATION AND DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1997.0010002	APPLICATION NO. 09/698,246
	APPLICANT Fu et al.	
	FILING DATE October 30, 2000	GROUP 2124

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA5						
	AB5						
	AC5						
	AD5						
	AE5						
	AF5						
	AG5						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AH5						
	AI5						
	AJ5						

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CD	AK	5	Moeneclaey, M., "A Simple Lower Bound on the Linearized Performance of Practical Symbol Synchronizers," <i>IEEE Transaction on Communications</i> , Vol. COM-31, No. 9, pp. 1029-1032 (September 1983).
CD	AL	5	Oerder, M. and Meyr, H., "Digital Filter and Square Timing Recovery," <i>IEEE Transactions on Communications</i> , Vol. 36, No. 5, pp. 605-612 (May 1988).
CD	AM	5	Pollet, T. and Peeters, M., "Synchronization with DMT Modulation," <i>IEEE Communications Magazine</i> , pp. 80-86 (April 1999).
CD	AN	5	Proakis, J. G., <i>Digital Communications, Third Edition</i> , McGraw-Hill, Inc., ISBN No. 0-07-051726-6, Entire book submitted (1995).
CD	AO	5	Proakis, J.G. and Manolakis, D.G., <i>Digital Signal Processing: Principles, Algorithms, and Applications, Second Edition</i> , Macmillan Publishing Company, ISBN No. 0-02-396815-X, Entire book submitted (1992).
CD	AP	5	Reimers, U., "Digital Video Broadcasting," <i>IEEE Communications Magazine</i> , pp. 104-110 (June 1998).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DEC 08 2003

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1997.0010002APPLICATION NO.
09/698,246APPLICANT
Fu et al.FILING DATE
October 30, 2000GROUP
2124

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA6						
	AB6						
	AC6						
	AD6						
	AE6						
	AF6						
	AG6						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AH6						
	AI6						
	AJ6						

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CD	AK	6	Sabel, L.P. and Cowley, W.G., "A Recursive Algorithm For The Estimation Of Symbol Timing In PSK Burst Modems," <i>Proc. Globecom 1992</i> , Vol. 1, pp. 360-364 (1992).
CD	AL	6	Tan, L.K., <i>High Performance Architectures And Circuits For QAM Transceivers</i> , Dissertation submitted to the University of California, Los Angeles, 208 pages (1995).
CD	AM	6	Tan, L.K. and Samueli, H., "A 200 MHz Quadrature Digital Synthesizer/Mixer in 0.8 μ m CMOS," <i>IEEE Journal of Solid-State Circuits</i> , Vol. 30, No. 3, pp. 193-200 (March 1995).
CD	AN	6	Vankka, J., "Methods of Mapping from Phase to Sine Amplitude in Direct Digital Synthesis," <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , Vol. 44, No. 2, pp. 526-534 (March 1997).
CD	AO	6	Vesma, J. and Saramäki, T., "Interpolation Filters With Arbitrary Frequency Response For All-Digital Receivers," <i>Proc. 1996 IEEE Int. Symp. Circuits Syst.</i> , pp. 568-571 (May 1996).
CD	AP	6	Vuori, J., "A Digital Multistandard Paging Receiver," <i>IEEE Transactions on Consumer Electronics</i> , Vol. 45, No. 4, pp. 1098-1103 (November 1999).

EXAMINER

DATE CONSIDERED

4/3/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DEC 08 2003

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1997.0010002APPLICATION NO.
09/698,246APPLICANT
Fu et al.FILING DATE
October 30, 2000GROUP
2124

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA7						
	AB7						
	AC7						
	AD7						
	AE7						
	AF7						
	AG7						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AH7						
	AI7						
	AJ7						

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CD	AK	Z	Wang, S. et al., "Hybrid CORDIC Algorithms," <i>IEEE Transactions on Computers</i> , Vol. 46, No. 11, pp. 1202-1207 (November 1997).
	AL	Z	
	AM	Z	
	AN	Z	
	AO	Z	
	AP	Z	

EXAMINER

DATE CONSIDERED

4/3/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

::ODMA\HODMA\SKGF_DC1;155127;1